Kendal 8mo. 23 — 94

Respected Friend,

It not having fallen in my way to
return by Keswick I take this opportunity to acquaint
thee with the result of my observations. — They
have not been so numerous upon the Hills as I intend
ed, but I have taken the Level in the Country through
which I passed frequently, which may have its use.

The Difference between the height of Kendal & Keswick
comes out just as before, but I intend to try the
absolute height of Kendal above the sea again: —

Winandermere Lake, & particularly the Raise Gap
& Leathes Lake differ materially from what I made
them before: the Differences I cannot reconcile unless
perhaps when I get to Manchester to see my old obser-
vations.

I was up at Buttermire & had 3 Companions, but
we did not proceed to Borrowdale; we were upon the
Red Pike & viewing Scale Force, but I had not then
my Barometer: Upon the Red Pike we see at one
Station 5 of the Lakes, viz. Ennerdale, Lowes water,
Crummock, Buttermire & Derwent.

Grasmere is a very rough Hill to climb, the
worst I was ever upon; — the ascent to the Red Pike by
way of Scale force is tolerable; but our Descent by
Sour milk Beck was most hideous.

I am &c. ———————————— John Dalton

Account of the Heights of Places above the Sea (determined by the Barometer in July & August 1794.

(N.B. They are all compared with & referred to the Hight of Kendal which place is taken from a former observation to be 46 Yards above the Sea.)

Names of the Places.	Hight above the Sea in Yards.
Winandermere Lake	36
Crook (in Westmor.)	120
Esthwaite Lake	66
Longdale Chapel Stile	76
Dunmail raise gap	276
Leathes Lake	206
Whinlater (Top of the road)	346
Eaglesfield	151
Carlisle	15
Scotby	35
Dalston	45
Caldbeck Town	183
Warnel Fell (Turnpike Gate)	338
Greenrigge	320
Crummock Water	91
Grasmere hill	953
Bridgehouse, near Hesket new market	193
Smithy, foot of Carrock	238
Carrock, West Pike	744
East Pike	713
Mosdale	266
Bowscale Tarn	540

Names of Places	Height above the Sea in Yards.
Penreth	134
Emont Bridge	126
Penrith Beacon	340
Yanwath	156
Terril	196
Winder (a small Village in Westm.)	366
Haws Water	238
Top of Goatscar (the Road)	663
Keswick	81

Peter Crosthwaite

Museum

Keswick

Favour of
John Hudson